Jan Meppe

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PROFILE

Jan Meppe (29) is a machine learning engineer experienced in bringing ML algorithms to production at scale. Deep domain expertise in the edtech space. Background in data science consulting. Educated in quantitative finance & statistics. Enjoys writing and sharing learnings on his blog www.janmeppe.com.

EXPERIENCE

Machine Learning Engineer @ Snappet (AI startup in education) (~2.5 years) Aug. 2021 - Present

Largest Dutch edtech startup empowering primary school education with machine learning based personalized learning. First worked on modeling and research and later on ml platform and ml infrastructure engineering.

- Designed and deployed a new machine learning model improving student learning performance at scale (300k users), resulting in 22% (!) improvement in key company metric (learning results)
- Architected, built, and productised end-to-end machine learning infrastructure platform, unifying core algorithms in a single place, resulting in smooth delivery from models from research to production
- Redesigned core algorithm in the platform and scaled training to more than 5b rows, resulting in productising new algorithm to 2 out of 3 key markets
- Models: Transformers, LSTMs, RNNs, hierarchical embedding models, large scale Rasch (IRT) models
- Technologies: Python, SQL, AWS, Docker, PyTorch, Tensorflow, DynamoDB, S3, Sagemaker, Azure DevOps

Data Scientist @ Cognizant (Fortune 200 Tech Consultancy) (2.5 years) Feb 2019 - Aug 2021

Worked as a data science consultant delivering client projects often under tight deadlines.

- Worked as a consultant building solutions on 10 different projects for 7 different clients (3 international)
- Led AI developments of chatbot (Bi-Directional Bahdanau Attention LSTM) for telco client serving >2m users
- Reduced build times of CICD pipelines by 60% at telco client, resulting in significant cost savings
- Other: sentiment classification (aviation client), computer vision (retail client), customer segmentation (retail client), natural language processing (pharma client), sap to python migration (energy client)

EDUCATION & QUALIFICATIONS

MPhil Advanced Econometrics (8/10), Tinbergen Research Institute, Amsterdam 2016 - 2018

- Full scholarship based on merit
- Thesis: High-Frequency Contagion in Hawkes Jump-Diffusion Models Using Particle Filters
- Completed extracurricular PhD level math course: asymptotic statistics

MSc Financial Econometrics (8.3/10), University of Amsterdam, Amsterdam 2015 - 2016

- Thesis: High-Frequency Stock Prediction Using Machine Learning Algorithms (8.5)

BSc Econometrics (7.95/10), University of Amsterdam, Amsterdam 2012 - 2015

- Thesis: Augmenting econometric models with NLP features (Latent Dirichlet Allocation) (8.5)
- Top 10% GPA and a minor in actuarial sciences

Gymnasium/VWO (7.9/10), OSG West-Friesland, Hoorn 2006 - 2012

- Scored a 9.5/10 on the national mathematics final

SELECTED SIDE PROJECTS

- Writing I write on my blog, www.janmeppe.com, with a steady viewership of more than 1k monthly visits
- Meditation app (iOS) I built an iOS app in Javascript/React/Redux and shipped it to the Apple App Store
- Django app I built a Django web app MVP to reduce the friction in asking for and giving feedback
- HackerNews I wrote a blog post that ended up on HackerNews and was read more than 30.000 times
- Open source I support open-source my Github account enjoys more than 25 stars across several projects

SKILLS

- **Programming**: Python, Tensorflow, Keras, Pytorch, AWS, Solution Architect, Domain-Driven-Design, scikit-learn, Django, Flask, Javascript, React Native, Docker, CICD, Jenkins, Azure Devops, CloudFormation, Infrastructure-as-code, deployment to production
- **Solution Architect**: Certified AWS Solution Architect Associate (AWS SAA-C03)
- **Technologies** Unix/CLI, Vim > Emacs, Git, LATEX
- **Competitive** Ex-top 500 player of a video game with more than 42 million players worldwide
- **Languages** Native Dutch, proficient English (CAE grade A, CEFR mastery level)
- **Analytical** Personal best for solving a Rubik's cube: 14.7 seconds